

REMARKS

35 U.S.C. § 112 Rejections

The Examiner has rejected claim 15 under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. The Examiner states that it is unclear from the claim language as to whether the layer of polysilicon is on top of the layer of monocrystalline, or beneath the layer of monocrystalline silicon. Applicant has amended claim 15 to specifically state that the layer of polysilicon is between the layer of monocrystalline silicon and the layer of solid diamond. Applicant believes that claim 15 is now sufficient clear, and respectfully requests withdrawal of the rejections under 35 U.S.C. § 112, second paragraph of claim 15.

35 U.S.C. § 102 Rejections

The Examiner has rejected claims 1,2, 4, and 5 under 35 U.S.C. § 102(b) as being anticipated by Tanabe. These claims have been deleted without prejudice.

The Examiner has also rejected claim 12 under 35 U.S.C. § 102(a) as being anticipated by Clevenger. Clevenger discloses a CVD diamond layer 14 next to an active side of a chip 10. Clevenger thus does not disclose a layer of monocrystalline semiconductor material between the CVD diamond layer 14 and an integrated circuit on a lower surface of the chip 10.

Claim 12 now specifically includes the limitation of a layer of monocrystalline semiconductor material on the layer of solid diamond, with an integrated circuit on a side of the layer of monocrystalline semiconductor material opposing the layer of solid diamond. Claim 12 thus includes at least one limitation not disclosed or suggested by Clevenger. Applicant therefore submits that claim 12 distinguishes over Clevenger.

The Examiner also rejected claims 13, 14, and 16 under 35 U.S.C. § 102(a) as being anticipated by Clevenger. These claims depend from claim 12, and should be allowable for at least the same reasons as claim 12.

Applicant, accordingly, respectfully requests withdrawal of the rejections of claims 12, 13, 14, and 16 under 35 U.S.C. § 102(a) as being anticipated by Clevenger.

35 U.S.C. § 103 Rejections

The Examiner has rejected claim 7 under 35 U.S.C. § 103(a) as being unpatentable over Tanabe in view of Nagy. This claim has been deleted without prejudice.

The Examiner also rejected claim 17 under 35 U.S.C. § 103(a) as being unpatentable over Clevenger as applied to claim 12, and further in view of Nagy. This claim depends from claim 12, and should be allowable for at least the same reasons as claim 12.

The Examiner also rejected claims 25-27 under 35 U.S.C. § 103(a) as being unpatentable over Tanabe. The Examiner did, however, indicate that claim 26 is objected to as being dependent upon the rejected base claim, but would be allowable if rewritten in independent form, including all of the limitations of the base claim and any intervening claims. Claim 25 has been amended with the limitations of claim 26. Claim 25 now includes the limitation of a layer of monocrystalline semiconductor material, a layer of a solid diamond, and a layer of monocrystalline semiconductor material between the layer of solid diamond and the rows and columns of integrated circuits. Applicant submits that these limitations, together with the other limitations in claim 25, render claim 25 distinct over Tanabe.

Applicant, accordingly, respectfully requests withdrawal of the remaining rejections of claims 17, 25, and 27 under 35 U.S.C. § 103(a) as being unpatentable over Clevenger, Nagy, or Tanabe.

Allowable Subject Matter

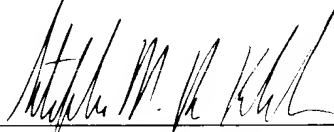
The Examiner's allowance of claims 8-11 is noted with appreciation.

Applicant respectfully submits that the present application is in condition for allowance. If the Examiner believes a telephone conference would expedite or assist in the allowance of the present application, the Examiner is invited to call Stephen M. De Klerk at (408) 720-8300.

Please charge any shortages and credit any overages to Deposit Account
No. 02-2666. Any necessary extension of time for response not already requested
is hereby requested. Please charge any corresponding fee to Deposit Account
No. 02-2666.

Respectfully submitted,

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